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Poly:cyclic cyclohex ne cpds. with di:fluoro-phenylen ring - and us as crystal compsn., esp. dielectric for electro-optical display

Assignee:

MERCK PATENT GMBH Standard company (MERE...)

Inventor:

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Accession / Update:

1989-279241 / 198939

IPC Code:

C07C 17/00; C07C 25/18; C07C 43/19; C07C 69/75; C07C 121/64; C09K 19/30; G02F

1/13; G09F 9/35;

Derwent Classes:

E14: L03: P81: P85: U11: V07:

Manual Codes:

E07-H(General), E10-A11B(Carbonic acid), E10-A15((Iso)cyanide - general), E10-F02A2 (ketone on chain of aromatic compound), E10-G02A(With carbocyclic ring, production), E10-H01C(Ether with halogen), E10-H02A(F, bonded to aromatic ring), L03-D01D1(Liquid crystal compounds), L03-G05B(Components for liquid crystal display devices), U11-A03

(Liquid crystal, electrochromic materials), V07-K(Controlling light)

Derwent Abstract

(DE3906040A) New di-, tri- and tetra-cyclic cyclohexene derivs. contg. 2,3-difluoro-1,4-phenylene ring(s) are of formula (I):

R1-A1-Z1-A2-(Z2-A3)m-R2 (I)

DERWENT RECORD

R1 and R2 = 1-15C alkyl or 3-15C alkenyl, opt. with one CN or at least one F or CI substit., in which a CH2 gp. can be replaced by -O-, -CO-, -O-CO-, -CO-O- or -O-CO-O-; and one of R1 and R2 can also = CN; A1, A2 and A3 = 1,4-cyclohexenylene, trans-1,4-cyclohexylene, in which one or two non-adjacent CH2 gps. can be replaced by -O-, or 1,4-phenylene, opt. with one or two F substits., in which one or two CH gps. can be replaced by N, at least one of A1-3 being = 2,3-difluoro- 1,4-phenylene and at least one = 1,4-cyclohexenylene; Z1 and Z2 = -CO-O-, -O-CO-, -CH2O-, -OCH2-, -CH2CH2- or a single bond.

(I) can be prepd. (not claimed) by standard methods, as described e.g., in Houben-Weyl, Methoden der Organischen Chemie, Georg-Thieme-Verlag, Stuttgart. USE/Advantage - (I) are claimed for use as components of liq. crystal (LC) phases, pref. with at least two LC components, which are claimed for use in LCDs, esp. as dielectric in electro-optical displays. (I) have great negative dielectric anisotropy and low viscosity. They are stable, LC or mesogenic cpds, and form stable LC phases with wide meso-phase range. They considerably extend the palette of LC substances. (I) are colourless and very stable towards chemicals, heat and light and

form mesophases in a favourable temp, range.

Abstract info:

DE3906040A: Dwg.0/0

Family:

Patent Pub. Date DW Update Pages Language **IPC Code** Sept. 21, 1989 198939 C07C 25/18 DE3906040A German Local appls.: DE1989003906040 ApplDate:1989-02-27 (89DE-3906040)

Nov. 29, 1991 199151 C09K 19/30 CH0678947A = German

Local appls.:

199007 C07C 17/00 JP2004723A =Jan. 09, 1990

Local appls.: <u>JP1989000055268</u>, ApplDate: 1989-03-09 (89JP-0055268)

Priority Number:

Application Number	Application Date	Original Title
DE1989003906040	Feb. 27, 1989	CYCLOHEXENDERIVATE
DE1988003807820	March 10, 1988	

Chemical Indexing Codes:

Show chemical indexing codes

Ring Index Numbers:

Show ring index numbers

Poly:cyclic cyclohexene cpds. with di:fluoro-phenylene ring - and use as crystal compsn., esp. dielectric f... Page 2 of 2

Registry Numbers:

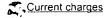
01[M3]:1704X 1724X 1711X 1714X 89290

Title Terms:

POLY CYCLIC CYCLOHEXENE COMPOUND DI FLUORO PHENYLENE RING CRYSTAL COMPOSITION

DIELECTRIC ELECTRO OPTICAL DISPLAY





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